

DaimlerChrysler AG

Patent claims

- 5 1. A device (1) for producing an essentially T-shaped hollow profile (8) or a hollow profile (8) provided with at least one branch (9),
- the device (1) having a multipart mold (2) which is intended for internal high pressure forming and with
  - 10 which a hollow profile (8) having at least one initially dome-like branch (9) can be produced, and
  - the device (1) also having a tool (10) at the branch (9), this tool (10) being designed for opening the branch (9) at the end face after the forming operation,
  - 15 characterized in that the tool (10) is designed as a cutting device having a parting slide (11) displaceable essentially transversely to the axis (6) of the branch (9).
- 20 2. The device as claimed in claim 1, characterized in that the parting slide (11) is arranged inside a gap space (12) which is present in the mold (2) and through which a cavity of the mold (2) passes transversely to the gap plane, this cavity being provided for shaping the
- 25 branch (9).
3. The device as claimed in claim 1 or 2, characterized
- in that the parting slide (11) has an opening (14) which is orthogonal relative to the slide plane and
  - 30 through which the cavity provided for shaping the branch (9) passes before the start of the parting operation, and
  - in that a marginal region of the opening (14) forms a cutting edge (15).

4. The device as claimed in claim 3, characterized in that the opening (14) has a cross section which is identical, at least in a certain region, to the cross  
5 section of the cavity provided for the shaping of the branch (9).

5. The device as claimed in one of claims 1 to 4, characterized in that the parting plane is arranged at an  
10 end face region of the dome-like branch (9).

6. The device as claimed in one of claims 1 to 4, characterized in that the parting plane is arranged in a region between the end face region and a region at which  
15 the dome-like branch (9) opens into the hollow profile (8).

7. The device as claimed in one of claims 3 to 6, characterized in that the cutting edge (15) is designed  
20 to be interchangeable.

8. The device as claimed in one of claims 3 to 6, characterized in that the cutting edge (15) forms an integral part of the parting slide (11).  
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9. The device as claimed in one of claims 1 to 8, characterized in that a drivable counter holder (17) is provided which supports the dome-like branch (9) at least during the forming process.  
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10. The device as claimed in claim 9, characterized in that the counter holder (17) is designed in such a way that it can be moved through the opening (14) of the parting slide (11).